	Application No.	Applicant(s)	
	00/400 003	ADAQUUET AL	$(\mathcal{X})$
Notice of Allowability	09/490,983 Examiner	ADACHI ET AL.	
	Ing-Hour Lin	1725	
		-	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS To herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not includ will be mailed in due	led course. THIS
1. This communication is responsive to 10/10/03.			
2. 🗵 <b>The</b> allowed claim(s) is/are <u>1-3,5-13,30-35,39,41,58-60 ar</u>	<u>nd 63-68</u> .		
3. $oxed{\boxtimes}$ The drawings filed on <u>13 May 2002</u> are accepted by the E			
<ol> <li>Acknowledgment is made of a claim for foreign priority u         a)              \infty All</li></ol>	nder 35 U.S.C. § 119(a)-(d) or (f).		
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.		
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application No	·	
<ol><li>Copies of the certified copies of the priority do</li></ol>	ocuments have been received in this	national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority u reference was included in the first sentence of the specific	ation or in an Application Data Sheet	onal application) sinc . 37 CFR 1.78.	e a specific
<ul> <li>(a) ☐ The translation of the foreign language provisional a</li> <li>Acknowledgment is made of a claim for domestic priority u</li> </ul>		naa a anaaifia referen	aa uuaa inaludad
in the first sentence of the specification or in an Application	n Data Sheet. 37 CFR 1.78.	nce a specific referer	ice was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" o pelow. Failure to timely comply will result in ABANDONMENT of			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv</li> </ol>	nitted. Note the attached EXAMINER' es reason(s) why the oath or declara	'S AMENDMENT or It	NOTICE OF
8. CORRECTED DRAWINGS ( as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper No			
(b) ☐ including changes required by the proposed drawing of			
(c) ☐ including changes required by the attached Examiner	s Amendment / Comment or in the C	of Paper	No
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawin the margin according to 37 CFR 1.121(d	ngs in the front (not the	e back) of
9. ☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T	SIT OF BIOLOGICAL MATERIAL IN THE DEPOSIT OF BIOLOGICAL MA	nust be submitted. TERIAL.	Note the
Attachment(s)			
I Notice of References Cited (PTO-892)	5 Notice of Informal Pa	tent Application (PTC	)-152)
Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊠ Interview Summary (F	PTO-413), Paper No.	1222 .
BM Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 1222	3), 7⊠ Examiner's Amendme	ent/Comment	
☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemen 9⊡ Other	t of Reasons for Allov	wance
<del>-</del>			

Application/Control Number: 09/490,983

Art Unit: 1725

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Barth on December 22, 2003.

The application has been amended as follows:

## IN THE SPECIFICATION

In page 1, line 2, after "1996" inserted was -- and now abandoned--; and line 3, after "1997" inserted was -- and now abandoned--.

## IN THE CLAIMS

In claim 11, line 11, after "Y" inserted was--in minutes--; and last line, after "pressure" inserted was --, said alloy in the insulated vessel is cooled to the molding temperature at a cooling rate of 0.01 ° C/s to 3 ° C/s--.

In claim 12, last line, after "pressure" inserted was --, said alloy in the insulated vessel is cooled to the molding temperature at a cooling rate of 0.01 ° C/s to 3 ° C/s--.

Claims 14-29, 36-38, 40, 42-57, 61-62 and 69 were canceled. However, attorney reserved the right to file divisional application.

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or suggest the combination of steps of shaping a semisolid metal, comprising: maintaining a molten alloy having crystal nuclei in an insulated vessel for a period from 5 second to 60 minutes as said alloy is cooled to a molding temperature at a cooling rate of 0.01 ° C/s to 3 ° C/s thereby crystallizing fine primary spherical crystals in an alloy solution thereof containing a specified liquid fraction; and thereafter feeding said alloy solution into a forming mold for shaping said alloy under pressure. Therefore, the claimed feature is allowable over the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

I-H. Lin L.M.

December 22, 2003

TOM DUNN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700